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App. No. 10/590,420
Office Action Dated September 18, 2007

Amendments to the Claims:

This listing of claims will replace all prior versions and listing of claims in the application.

Claim 1 is amended.

Claims 7-10 and 13-15 are canceled without prejudice or disclaimer.

Listing of Claims:

1. (Currently Amended) A glass composition comprising ~~bismuth oxide, aluminium oxide, and a glass network former, wherein a main component of the glass network former is germanium dioxide, the following components, indicated by mol%:~~

40 to 85 GeO₂;

0.5 to 33 Al₂O₃;

0 to 30 Li₂O;

0 to 30 Na₂O;

0 to 30 K₂O;

0.5 to 35 MgO;

0 to 30 CaO;

0 to 30 SrO;

0 to 30 BaO;

0 to 25 ZnO;

0 to 10 TiO₂;

0 to 5 ZrO₂; and

0 to 20 SiO₂;

wherein the total of MgO+CaO+SrO+BaO+ZnO+Li₂O+Na₂O+K₂O is in the range of 3 to 40 mol%,

the glass composition further includes bismuth oxide,

the content of bismuth oxide in terms of Bi₂O₃ is 0.01 to 15 mol%, and

bismuth contained in bismuth oxide functions as an emission species and the glass composition emits fluorescence in the infrared wavelength region by irradiation of excitation light.

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2. (Original) The glass composition according to claim 1, which has an optical absorption peak in the wavelength range of 400 nm to 1100 nm.
3. (Original) The glass composition according to claim 1, wherein the wavelength at which the intensity of fluorescence induced by the irradiation of excitation light with wavelength in the range of 400 nm to 1100 nm is 15 maximum is in the range of 900 nm to 1600 nm.
4. (Original) The glass composition according to claim 1, wherein a half width to the wavelength of the fluorescence is at least 150 nm.
5. (Original) The glass composition according to claim 4, wherein the half width to the wavelength of the fluorescence is at least 320 nm.
6. (Original) The glass composition according to claim 1, which provides gain of signal light in at least a part of the wavelength range of 900 nm to 1600 nm.
- 7-10. (Canceled)
11. (Original) The glass composition according to claim 1, wherein the content of bismuth oxide in terms of Bi_2O_3 is in the range of 0.01 to 15 mol%.
12. (Original) The glass composition according to claim 11, wherein the content of bismuth oxide in terms of Bi_2O_3 is in the range of 0.01 to 5 mol%.
- 13-15. (Canceled)
16. (Original) An optical fiber comprising the glass composition according to claim 1.
17. (Original) An optical amplifier comprising the glass composition according to claim 1.

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18. (Original) A method of amplifying signal light, comprising injecting excitation light and signal light into the glass composition according to claim 1 to amplify the signal light.